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(54) HIGH-TEMPERATURE ANTI-OXIDANT PAINT FOR STEEL MATERIAL

(57)Abstract:

PURPOSE: To provide a high-temp. anti-oxidant paint for a steel material, which prevents oxidation and scale formation of the steel material and has good removability by compounding respectively specified ceramic base material, binder, metallic powder and ceramic sintering accelerator at specific ratios.

CONSTITUTION: The paint is prepd. which consists of the compsn. contg. 20W 50wt% ceramic base material of at least one kind in the group consisting of silicon carbide, alumina, stabilized zircon and mica, 10W40wt% binder of at least one kind in the group consisting of neutral aluminum phosphate, colloidal silica and alumina sol, 5W10wt% metallic powder of at least one kind in the group consisting of Fe, Cu, Ni and Cr and 5W30wt% sodium carbonate as a ceramic sintering accelerator and in which the total of the components is 100wt%. Such paint is coated after mixing about 10W15wt% water therewith and the thickness of the coated film is made about 100W150 μ .

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